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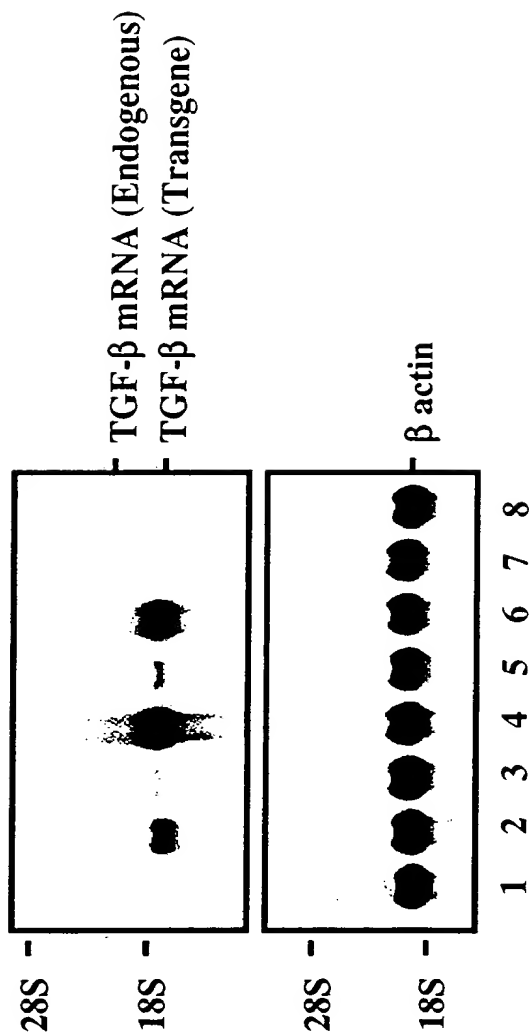


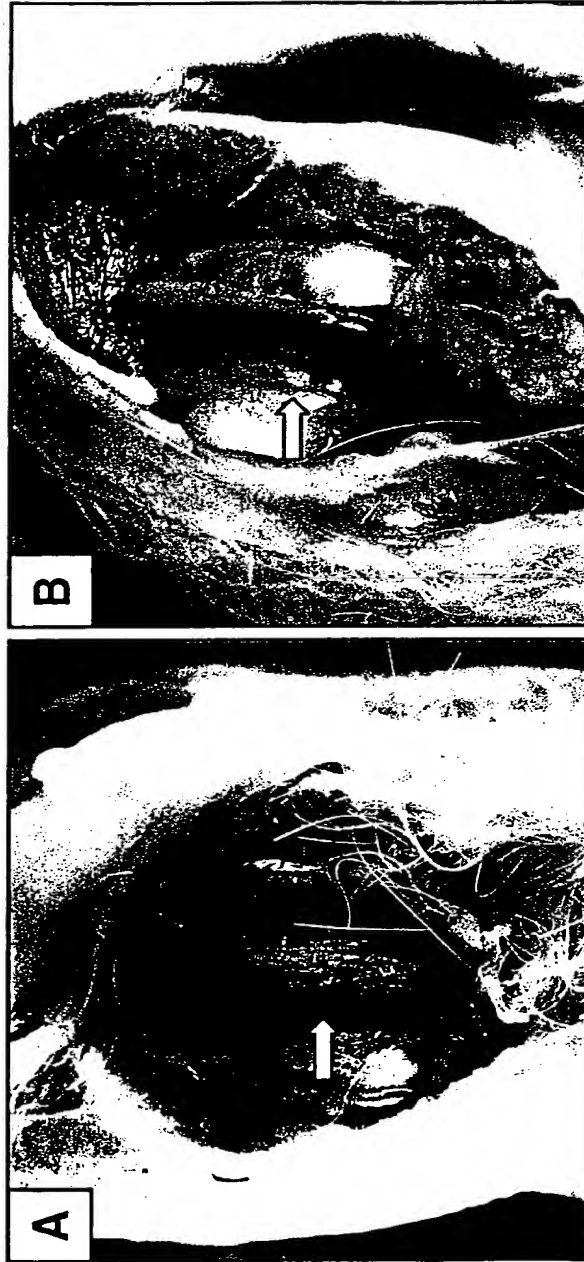
3

4

8

+
 +
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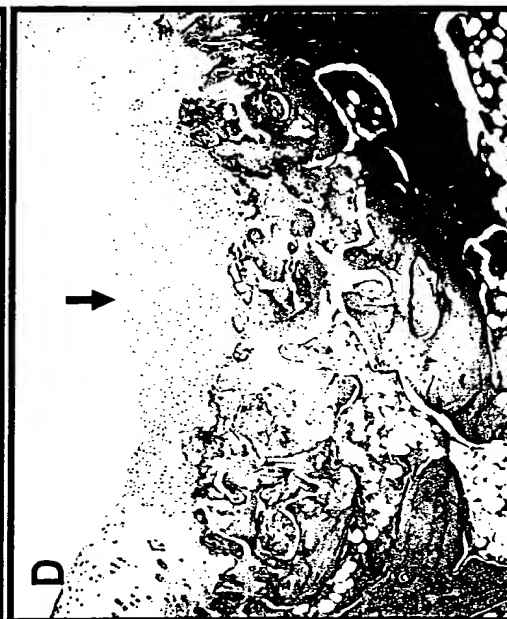
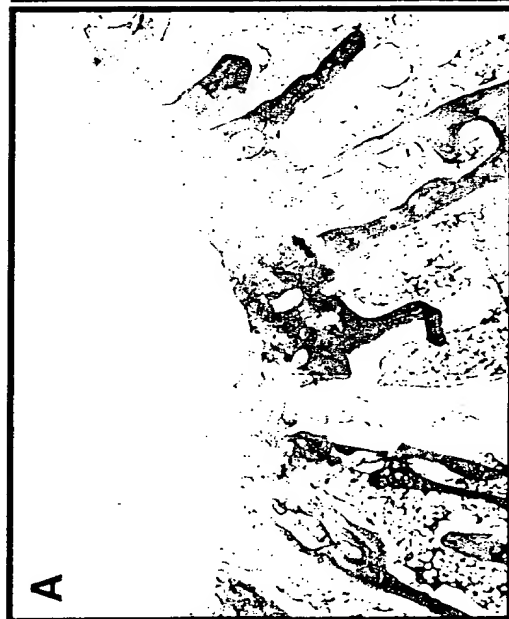


2014

Fig 3

4 weeks

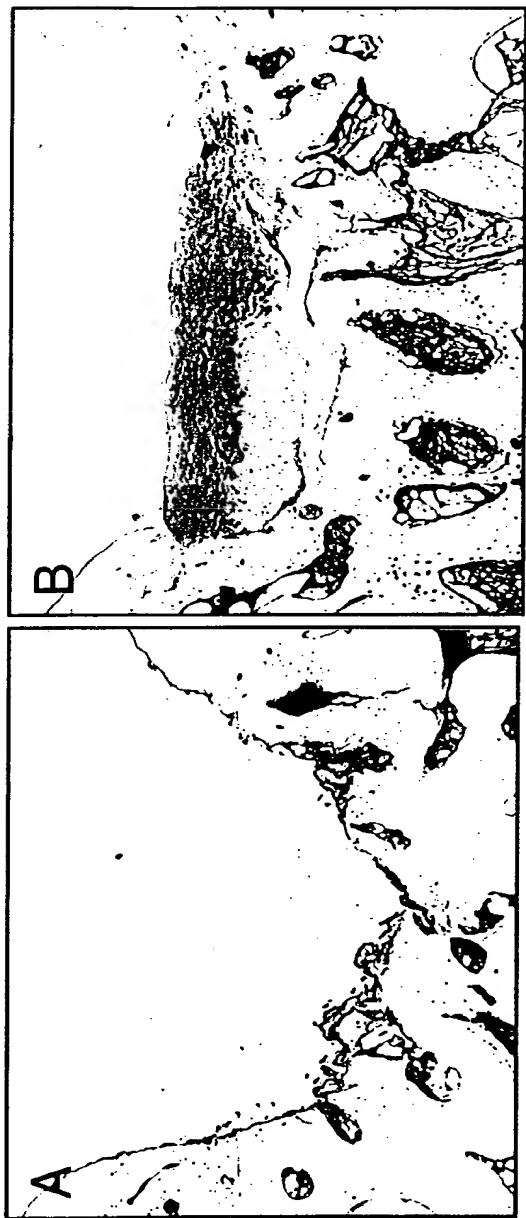
6 week~



Control

TGF- β

Fig 4



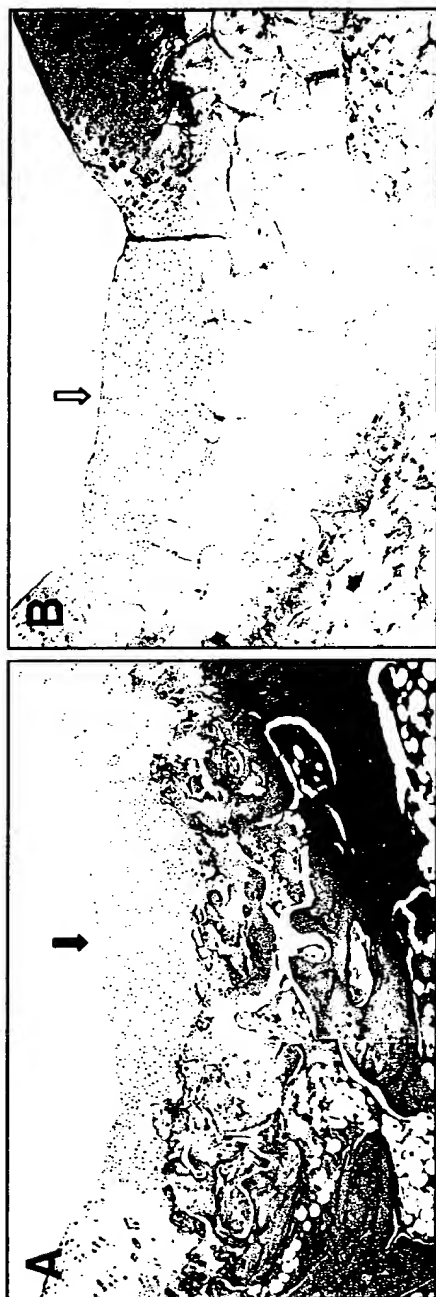
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Fig 9

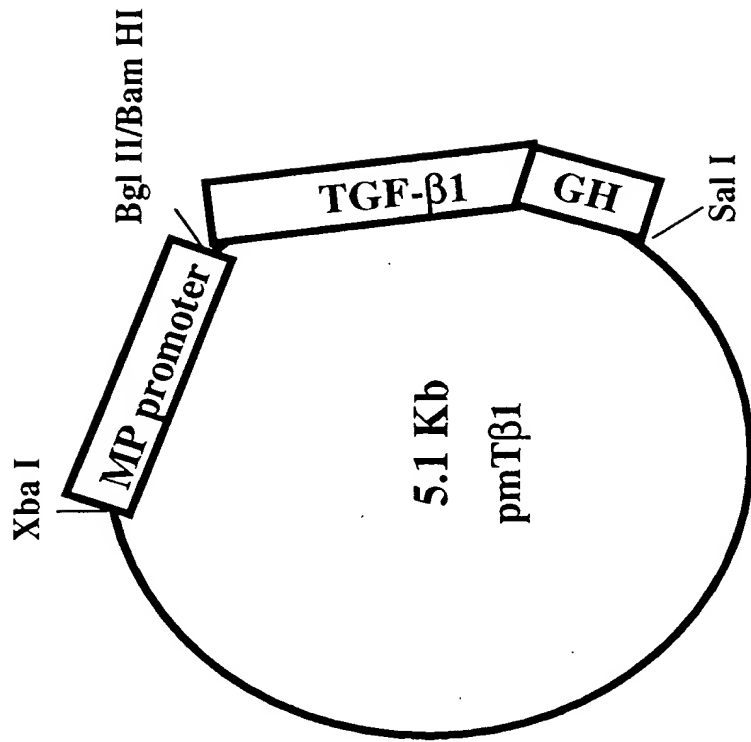
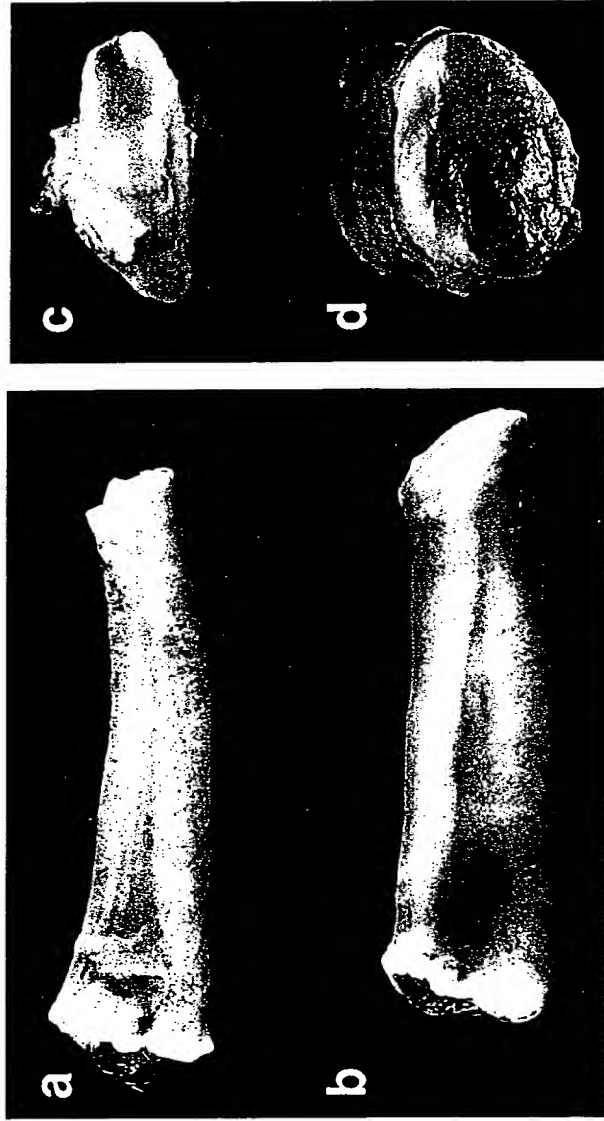


Fig 7

Control
cells

TGF- β 1-
transfected
cells



45	4	7
55	5	8
65	6	9
75	7	10
85	8	11
95	9	12
105	10	13
115	11	14
125	12	15
135	13	16
145	14	17
155	15	18
165	16	19
175	17	20
185	18	21
195	19	22
205	20	23
215	21	24
225	22	25
235	23	26
245	24	27
255	25	28
265	26	29
275	27	30
285	28	31
295	29	32
305	30	33
315	31	34
325	32	35
335	33	36
345	34	37
355	35	38
365	36	39
375	37	40
385	38	41
395	39	42
405	40	43
415	41	44
425	42	45
435	43	46
445	44	47
455	45	48
465	46	49
475	47	50
485	48	51
495	49	52
505	50	53
515	51	54
525	52	55
535	53	56
545	54	57
555	55	58
565	56	59
575	57	60
585	58	61
595	59	62
605	60	63
615	61	64
625	62	65
635	63	66
645	64	67
655	65	68
665	66	69
675	67	70
685	68	71
695	69	72
705	70	73
715	71	74
725	72	75
735	73	76
745	74	77
755	75	78
765	76	79
775	77	80
785	78	81
795	79	82
805	80	83
815	81	84
825	82	85
835	83	86
845	84	87
855	85	88
865	86	89
875	87	90
885	88	91
895	89	92
905	90	93
915	91	94
925	92	95
935	93	96
945	94	97
955	95	98
965	96	99
975	97	100
985	98	101
995	99	102
1005	100	103
1015	101	104
1025	102	105
1035	103	106
1045	104	107
1055	105	108
1065	106	109
1075	107	110
1085	108	111
1095	109	112
1105	110	113
1115	111	114
1125	112	115
1135	113	116
1145	114	117
1155	115	118
1165	116	119
1175	117	120
1185	118	121
1195	119	122
1205	120	123
1215	121	124
1225	122	125
1235	123	126
1245	124	127
1255	125	128
1265	126	129
1275	127	130
1285	128	131
1295		



69

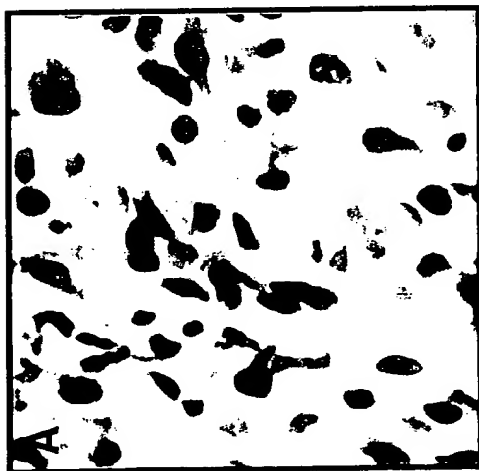
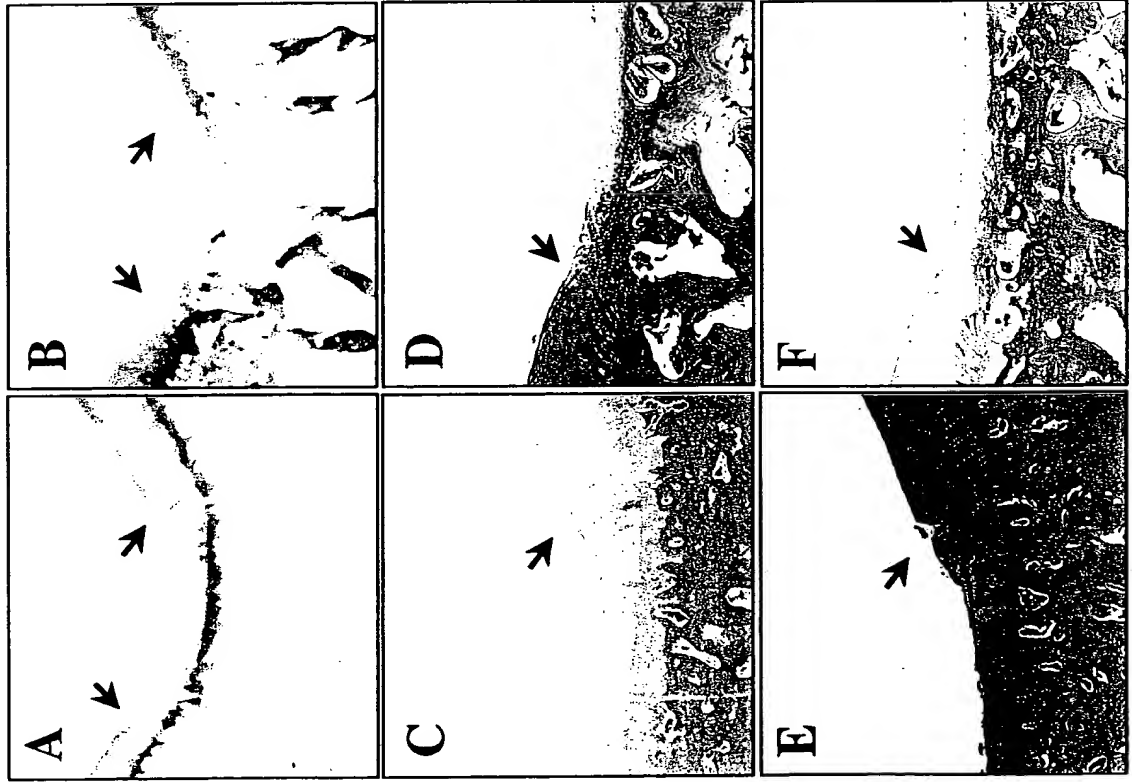


Figure 10. Regeneration of Cartilage with Irradiated NIH3T3-TGF- β 1 fibroblast cells

NIH 3T3

3 Week

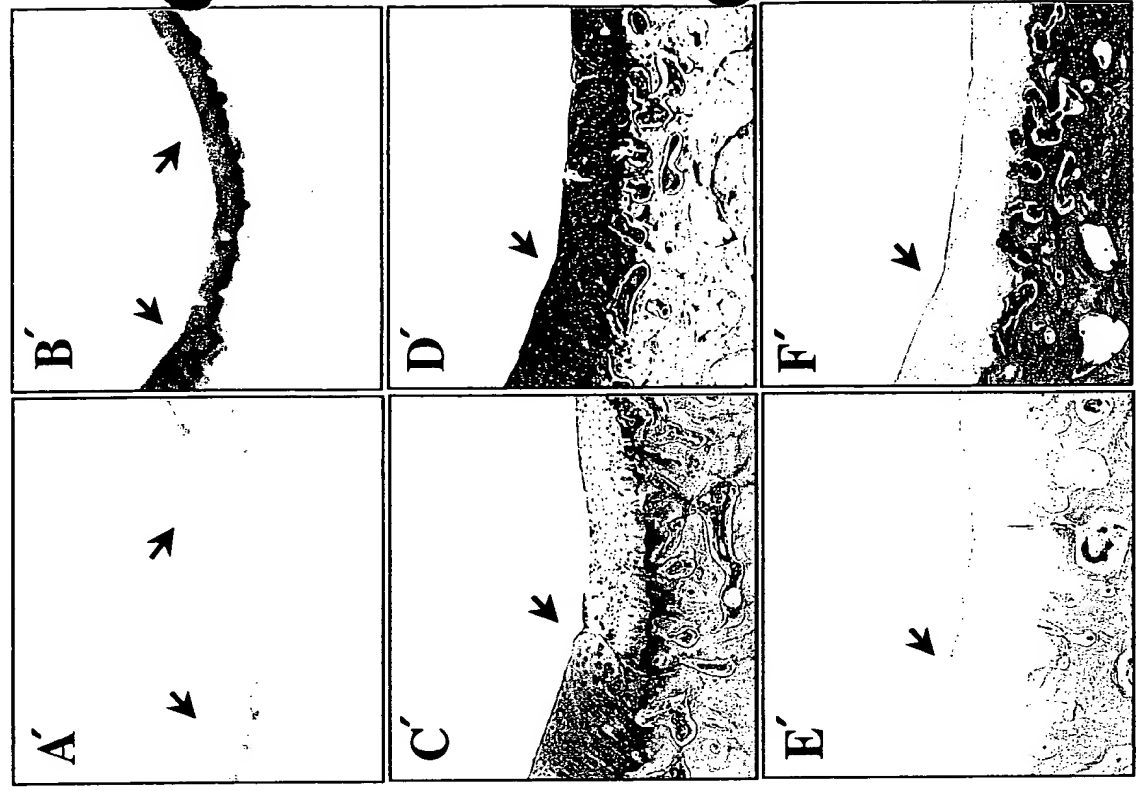
6 Week



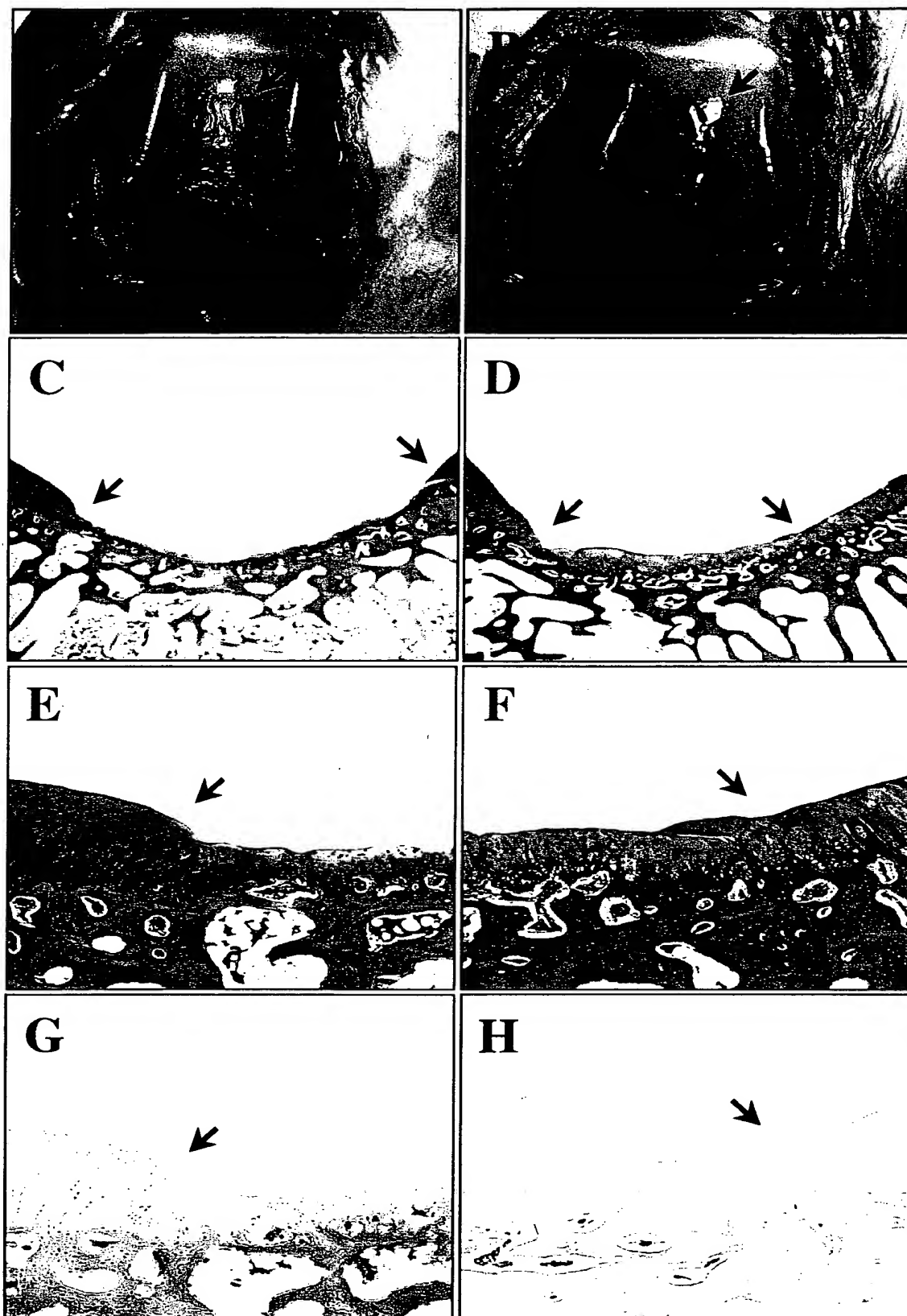
NIH3T3-TGF β 1

3 Week

6 Week

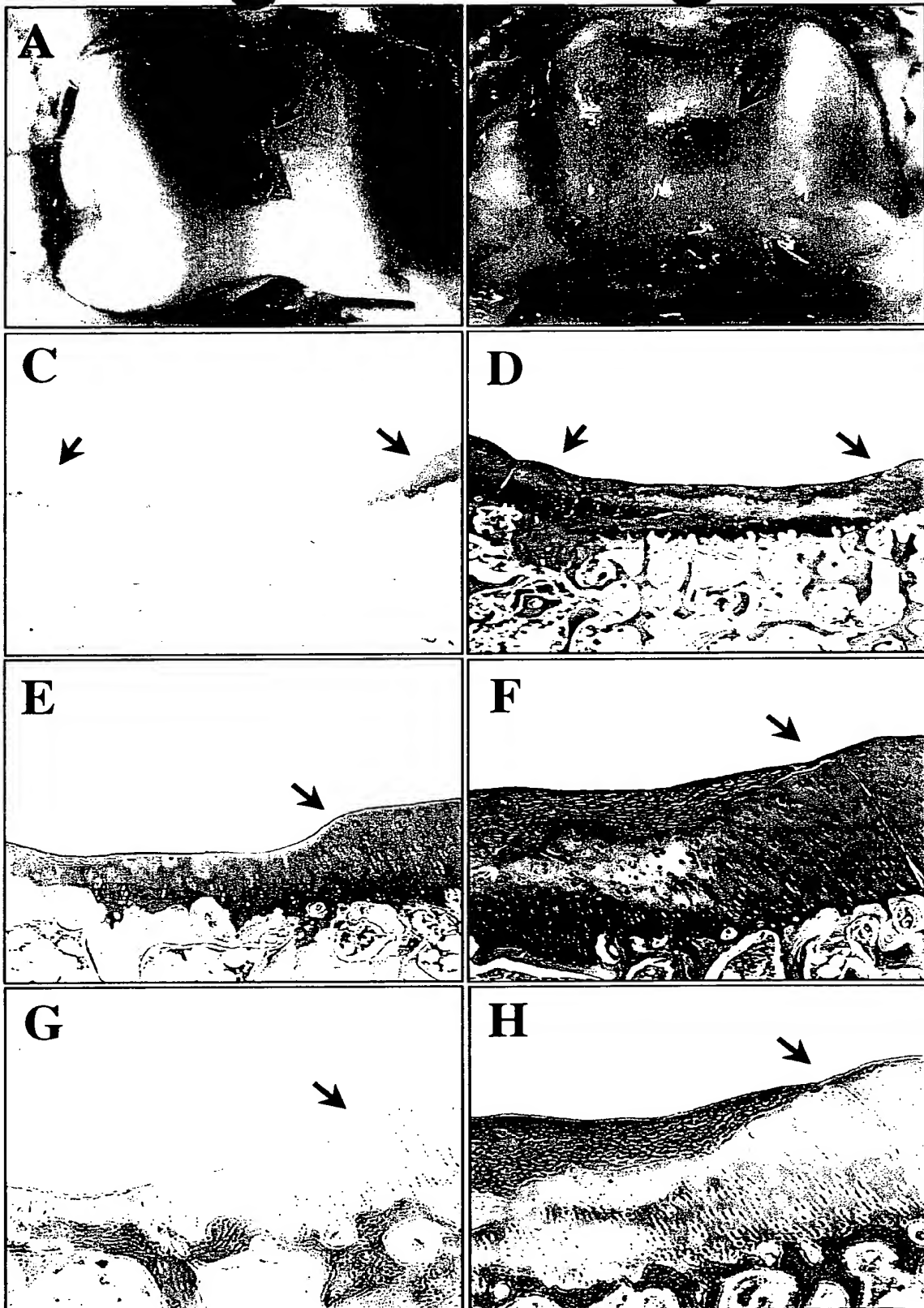


**Figure 11. Regeneration of Cartilage with Human Foreskin
Fibroblast Cells Producing TGF**



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Figure 12. Regeneration of Cartilage with NIH3T3-TGF- β 1 cells in a Dog Model



Immunohistochemical Staining of Regenerated Cartilage with TGF- β 1 antibody at 3 Weeks after Injection of TGF- β 1 producing fibroblast cells

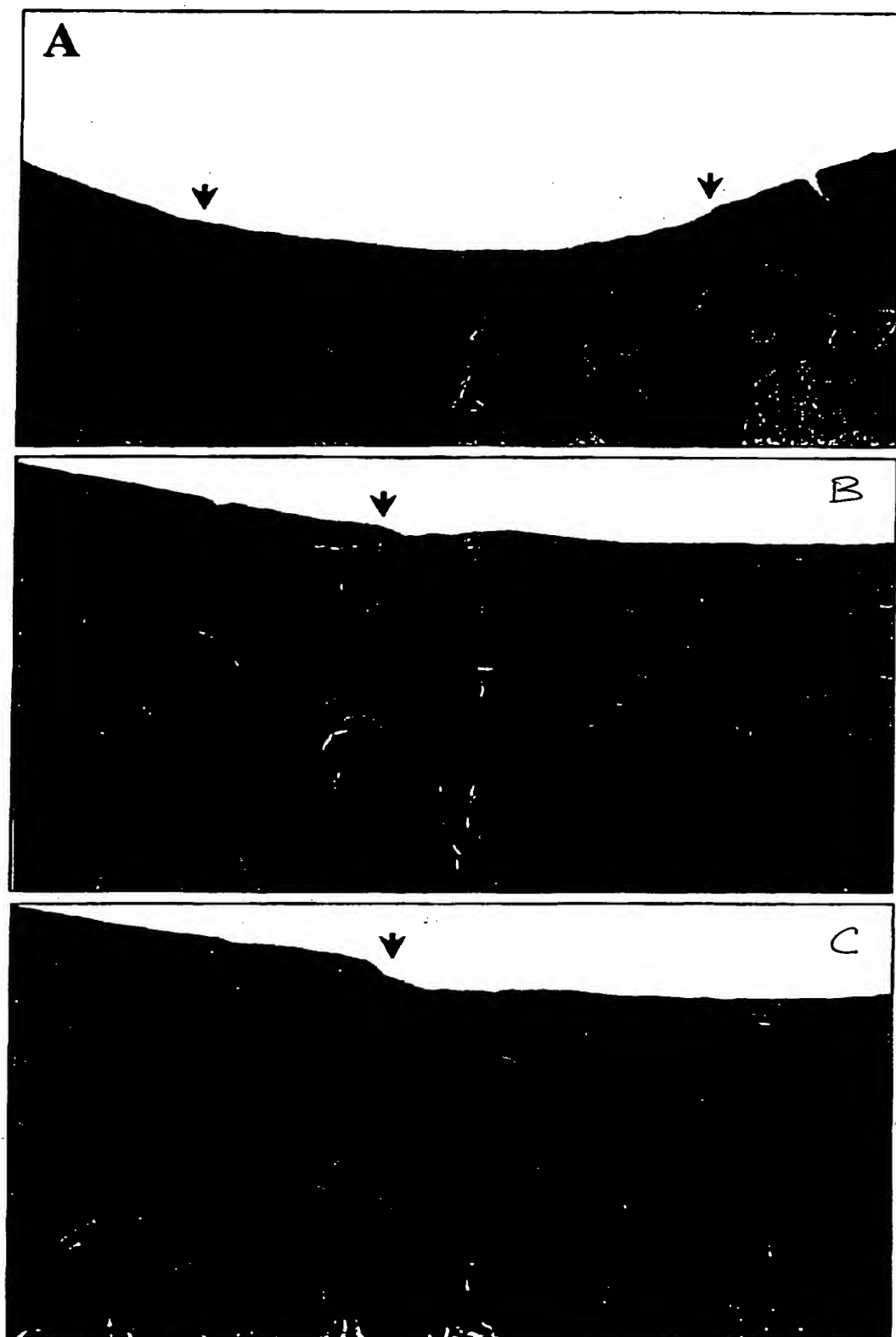


Fig. 13